Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

Create a Species

New Species Description Report:

1. Name of Scientist:
2. Title of Scientist:
3. Proposed Scientific Name of Organism:
4. Classification of Your Organism:

Kingdom:

Phylum:

Class:

Order:

Family:

Genus:

Species:

1. Physical Description/ Characteristics and Behaviors of Organism:

Physical Characteristics…

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

Behavioral Characteristics…

1.

2.

3.

4.

5.

1. Adaptations:

1.

2.

3.

4.

5.

1. Means of Energy Intake/ Feeding Strategies:
2. Reproductive Strategies:

Choose **asexua**l or **sexual** reproduction based off of the classification of your organism.

1. Description/ Characteristics of Organism’s Habitat and Environment:
2. Description(s) of Interrelationships with other Organisms:

**Biological Diagram of Organism**:

In the space below, draw, color and label, a detail diagram of your organism. Depict this drawing as close to your organism as possible. Label using the 5 adaptations you described in the description report.

**Diagram of Organism Interacting in its Food Web**:

In space below, neatly draw, color, and label a food web for your organism. Be sure to show the arrows in the food web, indicating flow of energy. Your food web diagram must include pictures/diagrams of **at least 5** other organisms in your biome/ecosystem.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Create a Species Challenge Project**

You are a famous ecologist returning from some far and remote location. During your travels, you discovered a new species of life. Upon your return, you prepare for a scientific report on the newly discovered life form to present to your research peers. Below is some background information regarding living things as well as evolutionary relationships.

**Purpose**:

In this activity you will apply many ideas and concepts of ecology, classification, and biological diagrams in a creative manner to describe a new imaginary species in a scientific report.

**Procedure:**

1. Read through the background information provided by email, pages, or web. Carefully read the ***Characteristics of Living Things*** section. Although this is an activity designed to inspire your creativity, your organism **must have** these characteristics.
2. Begin to imagine some creature that you would like to create. It can be a member in any of the ***Five Kingdoms of Living Things*** section. Read the 5 Kingdom section carefully in the background information.
3. ***First*** start with a sketch of your creature, rather than trying to describe it in the report. Let your imagination go wild! Try to keep it within the confines of what we know about living organisms.
4. Be sure to **read** the rest of the background information, ***Binomial Nomenclature, Symbiotic Relationships, and Food Chains and Food Webs*** before beginning your report. You will have to apply concepts from each of these sections in your report and diagrams.
5. Include *all required* written information in each section on your student answer report.
6. *Draw* your biological diagram and your food web diagram, according to the instructions given on your student answer report sheet, in space provided. Use colored pencils to make your diagrams neat, easy to read, and in color. You have several in-class workdays to research, work on, and finish your project. Let your imagination go wild!
7. ***Review the grading rubric*** at the end. Make sure that you have everything in order and can estimate where your grade sits based off of what you are turning in. If not good enough for you than work harder!

\*\*On the following page, you will find a checklist sheet along with the grading rubric. You will be responsible for what should be completed by the end of everyday on that checklist. Those will count as daily grades as well as factoring in to your overall project grade. Use the rubric as a guide as to what will be a great grade vs. an average one. ***USE YOUR TIME WISELY!!!***

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Create a Species Challenge Project**

**Daily Checklist**:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Day 1: ☐ Introduction to Project

☐ Read through all of the background Information and note any questions that you might have about the project and what is expected of you. (HW)

\_\_\_\_\_\_\_\_\_\_\_\_ Day 2: ☐ Have a full diagram, rough sketch of your organism created

☐ Complete Letter A-D on your Student Report

(Make sure it is neat and legible)

☐ Color rough sketch to help with completion of tomorrows

checkpoint. (HW)

\_\_\_\_\_\_\_\_\_\_\_\_ Day 3: ☐ Complete a full detail report on Letters E and F. \*\*Use diagram

model to assist with the details and descriptions.

(due by end of class)

\_\_\_\_\_\_\_\_\_\_\_\_ Day 4: ☐ Research different Biomes/ Ecosystems of where your organism

would best be suited.

☐ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ biome/ ecosystem chosen.

☐ Complete Letters G-J on student report.

\_\_\_\_\_\_\_\_\_\_\_\_ Day 5: ☐ Go back and read all the background information to make sure that

you have all the information needed to make your organism

successful and correct in the environment chosen, adaptations

applied, characteristics/ behaviors given, and relationships with other

species.

☐ Start writing a final draft of your student report. Use complete

sentences and make the paper flow from one topic to the next.

☐ Introduction

☐ Body

☐ Conclusion

\_\_\_\_\_\_\_\_\_\_\_\_ Day 6: ☐ Complete Final draft of Biological Diagram of Species.

☐ Colored and detailed

☐ 5 adaptations clearly labeled and identified

\_\_\_\_\_\_\_\_\_\_\_\_ Day 7: ☐ Complete Final draft of Food Web Drawing.

☐ Colored and detailed

☐ Ecological interaction with 5 other Species in Ecosystem chosen

☐ Arrows in correct direction of flow/ transfer

\_\_\_\_\_\_\_\_\_\_\_\_ Day 8: ☐ Turn in Final Project in the following order…

☐ Final Written Report

☐ Final Biological Diagram of Species

☐ Final Food Web Drawing

☐ Student Report…Letters A-J completed

Create a Species Rubric